



Missouri
Department of
Natural Resources

Associated Electric Cooperative, Inc.
Electric Generation and Emissions in 2010

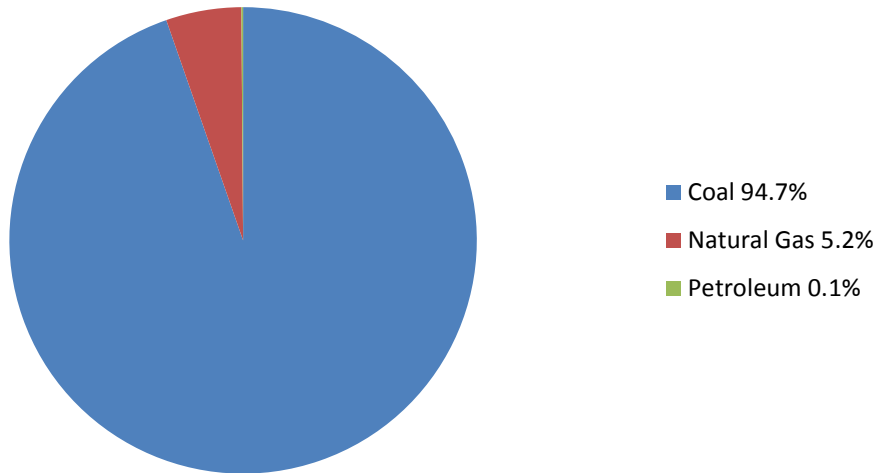
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	153,573,738	95.8%	95.8%	14,895,437	94.7%	94.7%
Natural Gas	6,600,184	4.1%	4.1%	820,041	5.2%	5.2%
Petroleum	199,421	0.1%	0.1%	18,823	0.1%	0.1%
Nuclear						
Other						
Non-renewable total	160,373,343	100.0%	100.0%	15,734,301	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	160,373,343		100.0%	15,734,301		100.0%

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	8,864,872
Natural Gas	MCf	6,543,160
Distillate Fuel Oil	Barrels	33,916



Net Generation by Fuel Type, 2010 for Associated Electric Cooperative, Inc.





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Power Plant Nameplate information for Associated Electric Cooperative, Inc.

Plant Name	County Location	Nameplate Capacity (MW)
<i>Associated Electric Cooperative, Inc.</i>		<i>14,390.4</i>
New Madrid	New Madrid	4,800.0
Thomas Hill	Randolph	4,540.0
Unionville	Putnam	184.0
St Francis Energy Facility	Dunklin	2,456.0
Essex	Stoddard	484.8
Nodaway	Nodaway	828.8
Holden	Johnson	1,096.8



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Emissions from Electricity Generated in 2010: Associated Electric Cooperative, Inc.

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
<i>Associated Electric Cooperative, Inc.</i>	561,319,384	67,303,845	7,480,318	1,086,867
Essex	37,029	18,694	353	35
Holden	308,308	155,410	2,936	294
New Madrid	273,734,706	32,238,885	3,653,790	531,504
Nodaway	35,268	17,805	336	34
St Francis Energy Facility	2,676,534	1,351,265	25,486	2,549
Thomas Hill	284,517,029	33,519,396	3,797,320	552,432
Unionville	10,509	2,389	98	20

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
<i>Associated Electric Cooperative, Inc.</i>	77,065	0.0034	0.0038
Essex	0	0.0000	0.0000
Holden	0	0.0000	0.0000
New Madrid	38,606	0.0009	0.0009
Nodaway	0	0.0000	0.0000
St Francis Energy Facility	0	0.0000	0.0000
Thomas Hill	38,459	0.0025	0.0028
Unionville	0	0.0000	0.0000



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Identified Flue Gas Desulfurization (FGD) controls installed on plants operated by Associated Electric Cooperative, Inc.

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on plants operated by Associated Electric Cooperative, Inc.

Plant	Control Equipment
New Madrid	Electrostatic precipitator, cold side, without flue gas conditioning
Thomas Hill	Electrostatic precipitator, cold side, without flue gas conditioning

Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>